

CLAIMS

We claim:

1. A program product having computer readable code stored on a recordable media for creating an interactive cash management
5 system comprising:

programmed means for receiving data input of a quantity of items of a denomination of money by an operator;

programmed means for receiving a miscellaneous denomination value amount to allow for receipt and dispensing of unusual
10 denominations;

programmed means for accumulating a total money value as an amount of miscellaneous denominations of money, and as a quantity and denomination of items of money are input by the operator;

programmed means for displaying the quantity and
15 denomination and amount of the items of money input and for displaying the accumulated total money value;

programmed means for posting the accumulated total money value amount and a running total of a count and denomination of items of money available for dispensing.

20 2. The program product of claim 1 wherein the programmed means for displaying further comprises:

programmed means for displaying indications of possible denominations;

programmed means for displaying a quantity input field and
25 an amount input field in a vicinity of each displayed indication of possible denomination;

programmed means for displaying an amount required field;
and

programmed means for displaying a total amount selected
30 field.

3. The program product of claim 2 further comprising:

programmed input assist means for receiving a data input of a required amount of money to be dispensed;

the programmed input assist means automatically filling in quantity input fields in the vicinity of such denomination 5 indications so that the quantity values of the denomination indications make up the required amount of money to be dispensed.

4. A program product having computer readable code stored on a recordable media for creating an interactive cash management 10 system comprising:

programmed means for receiving data input of a quantity of items of a denomination of money by an operator;

programmed means for receiving data input of an amount of money of a denomination by an operator;

15 programmed means for accumulating a total money value as a quantity and denomination of items of money are input by the operator;

programmed means for displaying the quantity and denomination and amount of the items of money input and for 20 displaying the accumulated total money value;

programmed means for posting the accumulated total money value amount and a running total of a count and denomination of items of money available for dispensing;

programmed means for displaying indications of possible 25 denominations of money to be dispensed;

programmed means for displaying a quantity input field and an amount input field in a vicinity of each displayed indication of possible denomination;

programmed means for displaying an amount required field; 30 and

programmed means for displaying a total amount selected field.

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programmed input assist means for receiving a data input of
a required amount of money to be dispensed;

the programmed input assist means automatically filling in
quantity input fields in the vicinity of such denomination
5 indications so that filled in quantity input fields of
denomination indications make up the required amount of money to
be dispensed.

5. The program product of claim 4 wherein the programmed
input assist means operates in three passes;

10 a first pass determining a selection of denominations to
comprise a required amount;

a second pass to delete denomination items to obtain optimum
denomination depletion; and

15 a third pass using a top down method for making up amounts
removed during the second pass.

6. The program product of claim 5 further comprising:

programmed means for determining that a total amount
selected is not equal to a total amount required to be dispensed;

programmed means responsive to the programmed means for
20 determining, when a total amount selected is not equal to a total
amount required, to reduce a quantity of a selected item of a
denomination when the denomination is not an integer multiple of
a next smaller denomination; and

programmed means using a top down method for making up
25 amounts removed by the reduction of the quantity of the selected
item by selecting quantities of items of smaller denominations.

7. A computer workstation having computer readable code
stored on a recordable media for creating an interactive cash
management system comprising:

30 means for receiving data input of a quantity of items of a
denomination of money by an operator;

means for receiving a miscellaneous denomination value amount to allow for receipt and dispensing of unusual denominations;

5 means for accumulating a total money value as an amount of miscellaneous denominations of money, and as a quantity and denomination of items of money are input by the operator;

means for displaying the quantity and denomination and amount of the items of money input and for displaying the accumulated total money value;

10 means for posting the accumulated total money value amount and a running total of a count and denomination of items of money available for dispensing.

8. The computer workstation of claim 7 wherein the means for displaying further comprises:

15 means for displaying indications of possible denominations;

means for displaying a quantity input field and an amount input field in a vicinity of each displayed indication of possible denomination;

20 means for displaying an amount required field; and

means for displaying a total amount selected field.

9. The computer workstation of claim 8 further comprising:

25 input assist means for receiving a data input of a required amount of money to be dispensed;

the input assist means automatically filling in quantity input fields in the vicinity of such denomination indications so that the quantity values of the denomination indications make up the required amount of money to be dispensed.

30 10. A computer workstation having computer readable code stored on a recordable media for creating an interactive cash management system comprising:

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means for receiving data input of a quantity of items of a denomination of money by an operator;

means for receiving data input of an amount of money of a denomination by an operator;

5 means for accumulating a total money value as a quantity and denomination of items of money are input by the operator;

means for displaying the quantity and denomination and amount of the items of money input and for displaying the accumulated total money value;

10 means for posting the accumulated total money value amount and a running total of a count and denomination of items of money available for dispensing;

means for displaying indications of possible denominations of money to be dispensed;

15 means for displaying a quantity input field and an amount input field in a vicinity of each displayed indication of possible denomination;

means for displaying an amount required field; and

means for displaying a total amount selected field.

20 input assist means for receiving a data input of a required amount of money to be dispensed;

the input assist means automatically filling in quantity input fields in the vicinity of such denomination indications so that filled in quantity input fields of denomination indications

25 make up the required amount of money to be dispensed.

11. The computer workstation of claim 10 wherein the input assist means operates in three passes;

a first pass determining a selection of denominations to comprise a required amount;

30 a second pass to delete denomination items to obtain optimum denomination depletion; and

a third pass using a top down method for making up amounts removed during the second pass.

12. The computer workstation of claim 11 further comprising:

means for determining that a total amount selected is not equal to a total amount required to be dispensed;

5 means responsive to the means for determining, when a total amount selected is not equal to a total amount required, to reduce a quantity of a selected item of a denomination when the denomination is not an integer multiple of a next smaller denomination; and

10 means using a top down method for making up amounts removed by the reduction of the quantity of the selected item by selecting quantities of items of smaller denominations.

13. A method for interactively managing cash comprising the acts of:

15 receiving data input of a quantity of items of a denomination of money by an operator;

receiving a miscellaneous denomination value amount to allow for receipt and dispensing of unusual denominations;

20 accumulating a total money value as an amount of miscellaneous denominations of money, and as a quantity and denomination of items of money are input by the operator;

displaying the quantity and denomination and amount of the items of money input and for displaying the accumulated total money value;

25 posting the accumulated total money value amount and a running total of a count and denomination of items of money available for dispensing.

14. The method of claim 13 wherein the step of displaying further comprises:

30 displaying indications of possible denominations;

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displaying a quantity input field and an amount input field
in a vicinity of each displayed indication of possible
denomination;

5 displaying an amount required field; and
displaying a total amount selected field.

15. The method of claim 14 further comprising the acts of:
receiving data indicating a required amount of money to be
dispensed;

10 automatically filling in quantity input fields in a vicinity
of such denomination indications so that quantity values of the
denomination indications make up the required amount of money to
be dispensed.

16. A method for interactively managing cash comprising the
15 steps of:

receiving data input of a quantity of items of a
denomination of money by an operator;

receiving data input of an amount of money of a
denomination by an operator;

20 accumulating a total money value as a quantity and
denomination of items of money are input by the operator;
displaying the quantity and denomination and amount of the
items of money input and for displaying the accumulated total
money value;

25 posting the accumulated total money value amount and a
running total of a count and denomination of items of money
available for dispensing;

displaying indications of possible denominations of money
to be dispensed;

30 displaying a quantity input field and an amount input field
in a vicinity of each displayed indication of possible
denomination;

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displaying an amount required field; and
displaying a total amount selected field.

receiving a data indicating a required amount of money to be
dispensed;

- 5 automatically filling in quantity input fields in a vicinity
of denomination indications so that filled in quantity input
fields of denomination indications make up the required amount of
money to be dispensed.

17. The method of claim 16 wherein the step of automatically
10 filling in quantity input fields in a vicinity of denomination
indications further comprises in three passes:

a first pass determining a selection of denominations to
comprise a required amount;

a second pass to delete denomination items to obtain optimum
15 denomination depletion; and

a third pass using a top down method for making up amounts
removed during the second pass.

18. The method of claim 17 further comprising the steps of:
determining that a total amount selected is not equal to a
20 total amount required to be dispensed;

in response to the step of determining, when a total amount
selected is not equal to a total amount required, reducing a
quantity of a selected item of a denomination when the
denomination is not an integer multiple of a next smaller
25 denomination; and

selecting quantities of items of smaller denominations using
a top down method for making up amounts removed by reduction of
the quantity of the selected item.